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(54) Title: **AN ILLUMINATION METHOD AND SYSTEM FOR OBTAINING COLOR IMAGES BY TRANSLERAL OPHTHALMIC ILLUMINATION**

(57) Abstract: An illumination system for fundus imaging apparatus employing transcleral illumination of the interior of the eye. Color images of the interior of the eye are obtained by illuminating the sclera successively with red, yellow and green light. Those images are then treated as red, green and blue images by a post processing unit, which combines them to give a color image. This is useful for observing or imaging the interior of the eye, the retina, or the choroid. The observation or the imaging of the interior of the eye, the retina, or the choroid by applying the disclosed illumination method can be performed in conjunction with any system that includes optics for that purpose.

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